

SHILLING

INTENSIVE STUBBLE CULTIVATORS





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PERFECT STUBBLE CULTIVATION



The SHILLING intensive stubble cultivators are effectively applied for minimum tillage, which encourages germination and development of crops. SHILLING has the best performance when cultivating the soil before and after grain and legume crops, and widely used for conventional tillage, fallow maintenance and seedbed preparation.

The cultivator performs the following operations in one pass:

- soil loosening and crumbling;
- weeds undercutting;
- chopping and incorporating the plant residues, fertilizers for mulching; levelling and compaction of the soil;
- seedbed preparation with stable depth.

The SHILLING intensive stubble cultivator can be also applied for the intercrops incorporation. Its design provides high-quality mixing of crop residues with soil for rapid decomposition.



Stable depth control

Demountable support wheels, which height can be adjusted by a screw, provide precise depth control even when using tractors without position control of the mounted system.



Easy depth adjustment

Levelling concave discs are mounted on the roller parallelogram, so the additional discs adjustment is not required when depth changing.



Optimal position of the center of gravity

Optimal position of the center of gravity is achieved by simple rearrangement of the depth limiter axle and forward displacement of concave discs with roller. This significantly reduces loads on the tractor coupling and allows cultivator transportation.





Adjustment for different soil types

Cultivator tines slope angle can be adjusted by means of the shear bolt replacement, providing perfect penetration even in dry and heavy soil.



Optimal loosening and drainage

Wide wing shares are mounted at a special angle, ensuring undercutting the soil seam over the whole surface and optimal mixing even at shallow depths. The working width of the share long edge points is stable during entire service life.



Premium class working tools

Working tools are made of high quality hardened boron steel (Bellota, OFAS, AMA).

Design of the SHILLING allows to use most of the foreign-made working tools, choosing the best way of purchasing.

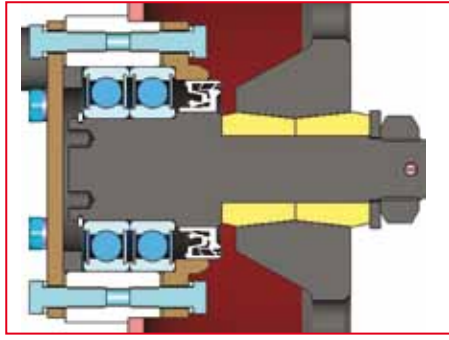




High-performance doubled roller

Special design of the doubled roller provides intensive soil crumbling and its optimal recompacting. This encourages the best germination of the fallen seeds and weeds. The absence of central axle prevents roller blockage even in overwatered and weed infestation conditions.

Geometry of the doubled rodage roller makes the soil, flinging out of the first roller, change its direction and speed of the second roller. Therefore the soil is optimally crumbled and levelled.



Unique bearing unit

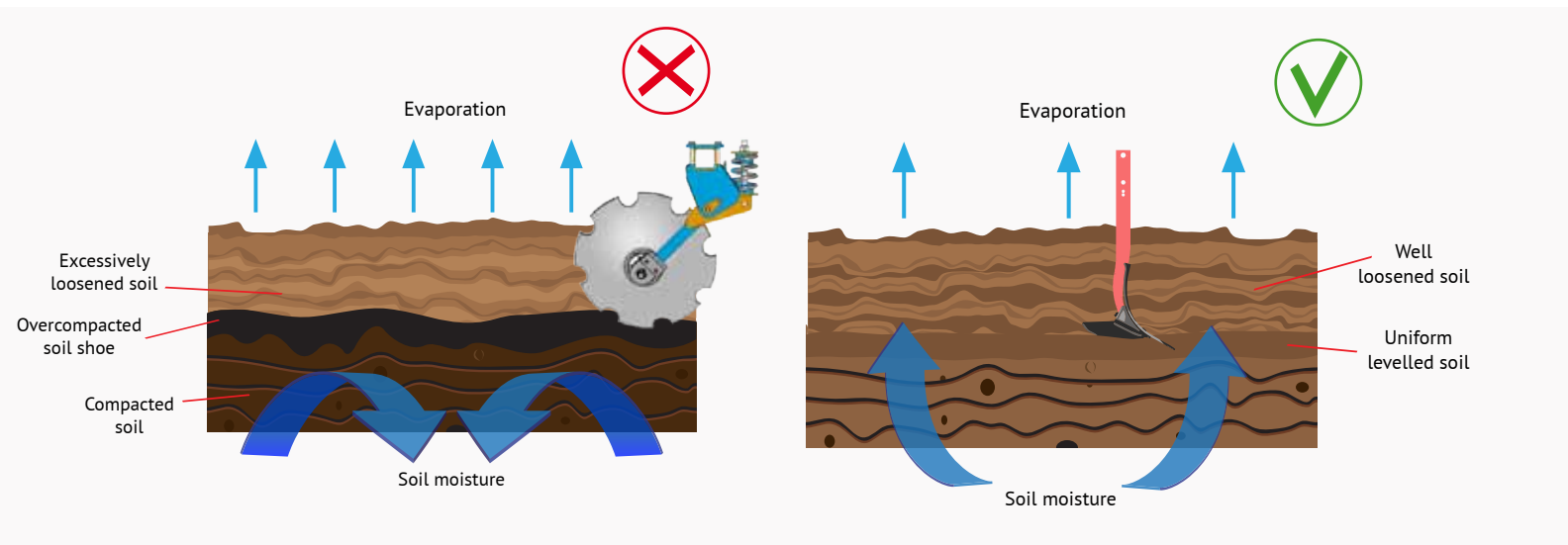
Bearing unit of the roller is maintenance-free for entire service life due to high-quality cassette sealings and HARP-AGRO fully sealed bearings.



Versatile frame design

The frame height is 80 cm, which allows cultivating the fields with a lot of crop residues.





The SHILLING has advantages over disc implements with rigid tine, such as higher quality of cultivation with precise depth control and levelled seedbed. Working tools have much smaller soil shoe compared to disc harrows.

There are two stages of cultivation with the SHILLING.

At the first stage the wing shares with special shape cover the volunteer seeds, weeds and organic mass with the topsoil at shallow depth. This encourages their rapid germination, whilst the water capillaries are broken to retain moisture, and precipitations are absorbed.

The second stage follows approximately in two weeks. Soil is cultivated to the depth of 10-15 cm, and seedlings are cut off over the whole field surface and removed with roots. At the same time SHILLING uniformly incorporates organic mass in the cultivation depth and mixes it with the soil.

TECHNICAL DATA

	SHILLING-2	SHILLING-3	SHILLING-4	SHILLING-6	THALER + 2 pcs. of SHILLING-4
Working width, m	2,24	3,14	4,0	6,0	8,0
Tractor power, hp	min. 80	min. 130	min. 160	min. 300	min. 450
Coupling with tractor	mounted	mounted	mounted	mounted	semi-trailed
Basic weight, kg	748	1340	1480	2906	5764
Number of tines, pcs.	5	7	9	13	18
Operating depth, cm	5-22	5-22	5-22	5-22	5-22
Operating speed, km/h	7...12	7...12	7...12	7...12	7...12
Efficiency, ha/h	max. 2,07	max. 3,01	max. 3,96	max. 5,84	max. 7,92
Fuel consumption, l/ha	6...15	6...15	6...15	6...15	6...15
Transport dimensions (length x width x height), mm	2613x2508 x1450	3427x3410 x1450	2902x4397 x1850	3554x3024 x3900	5734x3323 x4080